Client's ref.: NTC 90032 File: 0548-6763Usf/Jacky/Kevin (2001-12/18)

What Is Claimed Is:

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	1.	Α	fuse	structure,	comprising
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- an optimal position of laser spot defined above a substrate;
 - a first conductive layer formed on part of the substrate;
 - a dielectric layer formed on the substrate and the first conductive layer;
 - a second conductive layer comprising the position of laser spot formed on part of the dielectric layer;
 - a third conductive layer formed on the part of the dielectric layer placed above the first conductive layer, wherein the third conductive layer is insulated from the first and second conductive layers; and
 - at least one conductive plug penetrating the dielectric layer, to electrically connect the first conductive layer and the second conductive layer.
- 2. The fuse structure according to claim 1, wherein the material of the first conductive layer is tungsten.
- 3. The fuse structure according to claim 1, wherein the material of the second conductive layer is Al, AlCu alloy or poly-silicon.
- 4. The fuse structure according to claim 1, wherein the material of the third conductive layer is Al, AlCu alloy or poly-silicon.

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5. The fuse structure according to claim 1, wherein the material of the dielectric layer is SiO₂.

- 1 6. The fuse structure according to claim 1, wherein the 2 material of the conductive plug is tungsten.
 - 7. The fuse structure according to claim 1, further comprising a passivation layer having a window formed on the second conductive layer and the third conductive layer;

wherein the window exposes the second conductive layer comprising the position of laser spot, part of the third conductive layer and part of the dielectric layer.

- 8. The fuse structure according to claim 7, wherein the material of the passivation layer is PE-TEOS SiO_2 or SiN.
- 9. A fuse window having a plurality of fuse structures, each of the fuse structures comprising:
- an optimal position of laser spot defined above a substrate;
- a first conductive layer formed on part of the substrate;
- a dielectric layer formed on the substrate and the first conductive layer;
 - a second conductive layer comprising the position of laser spot formed on part of the dielectric layer;
- a third conductive layer formed on the part of the dielectric layer placed above the first conductive layer, wherein the third conductive layer is insulated from the first and second conductive layer; and

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at least one conductive plug penetrating the dielectric layer, for electrically connecting the first conductive layer and the second conductive layer; 3 - 11

wherein each of the fuse structures has its own position of laser spot on the second conductive layer, and the fuse structures are insulated from one another, and the laterals of the second conductive layer having the position of laser spot of any the fuse structures correspond to the third conductive layer of the adjoining fuse structure.

- 10. The fuse window according to claim 9, wherein the material of the first conductive layer is tungsten.
- 11. The fuse window according to claim 9, wherein the material of the second conductive layer is Al, AlCu alloy or poly-silicon.
- 1 12. The fuse window according to claim 9, wherein the 2 material of the third conductive layer is Al, AlCu alloy or 3 poly-silicon.
- 1 13. The fuse window according to claim 9, wherein the material of the dielectric layer is SiO₂.
- 1 14. The fuse window according to claim 9, wherein the material of the conductive plug is tungsten.
 - 15. A fuse structure, comprising:
- an optimal position of laser spot defined above a substrate;

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a first conductive layer formed on part of the substrate;

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a dielectric layer formed on the substrate and the first conductive layer;

a second conductive layer comprising the position of laser spot formed on the dielectric layer; and

at least one conductive plug penetrating the dielectric layer, to electrically connect the first conductive layer and the second conductive layer.

- 16. The fuse structure according to claim 15, wherein the material of the first conductive layer is tungsten.
- 17. The fuse structure according to claim 15, wherein the material of the second conductive layer is Al, AlCu alloy or poly-silicon.
- 18. The fuse structure according to claim 15, wherein the material of the dielectric layer is SiO_2 .
- 19. The fuse structure according to claim 15, wherein the material of the conductive plug is tungsten.
 - 20. The fuse structure according to claim 15, further comprising a passivation layer having a window formed on the second conductive layer;
- wherein the window exposes the second conductive layer comprising the position of laser spot.
- 21. The fuse structure according to claim 20, wherein the material of the passivation layer is PE-TEOS SiO_2 or SiN.

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22. A fuse window having a plurality of fuse structures,
Each fuse structure comprising:

an optimal position of laser spot defined above a substrate;

a first conductive layer formed on part of the substrate;

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a dielectric layer formed on the substrate and the first conductive layer;

a second conductive layer comprising the position of laser spot formed on part of the dielectric layer; and

at least one conductive plug penetrating the dielectric layer, to electrically connect the first conductive layer and the second conductive layer;

wherein each fuse structure has its own the position of laser spot on the second conductive layer, and the fuse structures are insulated from one another, and the laterals of the portion of the second conductive layer having the position of laser spot of any the fuse structure correspond to the portion of the second conductive layer having no position of laser spot of the adjoining fuse structure.

- 1 23. The fuse window according to claim 22, wherein the 2 material of the first conductive layer is tungsten.
- 1 24. The fuse window according to claim 22, wherein the 2 material of the second conductive layer is Al, AlCu alloy or 3 poly-silicon.
- 1 25. The fuse window according to claim 22, wherein the 2 material of the dielectric layer is SiO_2 .

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1 26. The fuse window according to claim 22, wherein the

2 material of the conductive plug is tungsten.